

1. I am a two-digit number. The sum of my digits is 10. My tens digit is 4 more than my units digit.

What is my tens digit?

- A) 4
- B) 3
- C) 7
- D) 6

(Correct +3, Wrong 0, Blank 0)

2. A wire with a length of 48 cm will be cut and formed into a cube frame. Then the surface of the cube will be completely covered by thin glass.

The area of the thin glass needed is ____ cm^2 .

- A) 96
- B) 72
- C) 36
- D) 48

(Correct +3, Wrong 0, Blank 0)

3. The length and width of a rectangle are in the ratio 2:1 respectively.

If the area is 72 cm^2 , what is the width?

- A) 8
- B) 6
- C) 2
- D) 4

(Correct +3, Wrong 0, Blank 0)

4. Three people are about to sit at a circular table with 5 chairs. Assume each chair is identical.

The number of different possible seating configurations are ____.

- A) 6
- B) 24
- C) 120
- D) 60

(Correct +3, Wrong 0, Blank 0)

5. The average science score of 6 students in class A is 6, while the average science score of 4 students in class B is 6.

If their scores are combined, what will be the overall average science score of all the students?

- A) 5
- B) 8
- C) 9
- D) 6

(Correct +3, Wrong 0, Blank 0)

6. If 8 cows eat 16 sacks of grass in 4 days, **how long will it take for 4 cows to eat 16 sacks of grass?**

- A) 2 Days
- B) 4 Days
- C) 8 Days
- D) 6 Days

(Correct +3, Wrong 0, Blank 0)

7. A fair 6-sided die is rolled 3 times. If the first two rolls result in a prime number.

What is the probability that the third roll will be an even number?

- A) $\frac{1}{8}$
- B) $\frac{1}{6}$
- C) $\frac{1}{4}$
- D) $\frac{1}{2}$

(Correct +3, Wrong 0, Blank 0)

8. Imagine 5 friends are at an ice cream shop. The ice cream shop has four delicious flavors: Vanilla, Chocolate, Strawberry, Banana.

If each of the 5 friends picks one flavor, and anyone can pick any flavor they like, how many different ice cream orders could the group have?

- A) 20
- B) 125
- C) 4^5
- D) 5^4

(Correct +3, Wrong 0, Blank 0)

9. A three-digit number is called "**comody**" if the sum of its digits is equal to 12.

How many "comody" three-digit numbers have a hundreds digit greater than the tens digit and the tens digit greater than the ones digit?

- A) 10
- B) 7
- C) 12
- D) 11

(Correct +3, Wrong 0, Blank 0)

10. Given the function $f(x) = 2x - \frac{16}{x}$.

Find all a such that $f(a) = -4$

- A) -2
- B) 2
- C) -4 and 4
- D) -4 and 2

(Correct +3, Wrong 0, Blank 0)

11. Given the function $f(x) = x + 3$.

If $f(a) = f(2) + f(5)$, then the value of a is ____ .

- A) 9
- B) 10
- C) 7
- D) 8

(Correct +3, Wrong 0, Blank 0)

12. A number P is the smallest natural number that when divided by 2 leaves a remainder of 1, when divided by 5 leaves a remainder of 4 and when divided by 13 leaves a remainder of 10.

Then the result of adding the digits of the number is ____.

- A) 13
- B) 17
- C) 11
- D) 15

(Correct +3, Wrong 0, Blank 0)

13. The head of Hegarmukti Village plans to build a sports arena for an inter-village competition on January 22 this year. The construction will start on January 1 and is expected to be completed by January 21 with 12 workers. After working for 10 days, the construction stops for 5 days.

If the project must still be completed on time, how many additional workers are needed?

- A) 8 Workers
- B) 10 Workers
- C) 4 Workers
- D) 6 Workers

(Correct +3, Wrong 0, Blank 0)

14. In a geometric sequence, it is given that $U_6 = 3072$ and $U_3 = 48$. ($U_n = a \cdot r^{n-1}$)

If the sequence has the first term a and common ratio r , then a^r is ____

- A) 243
- B) 81
- C) 9
- D) 27

(Correct +3, Wrong 0, Blank 0)

15. What is the smallest prime divisor of $13^{23} + 7^{19}$?

- A) 5
- B) 2
- C) 7
- D) 3

(Correct +3, Wrong 0, Blank 0)

16. The perimeter of the following shape is 16π unit.



The closest distance between A dan B is ____ unit.

- A) 16
- B) 8
- C) 32
- D) 4

(Correct +3, Wrong 0, Blank 0)

17. Ava has 12 peaches, Ethan has 5 more than three times as many peaches as Ava, Mia has twice as many plums as Ethan has peaches, Lucas has one-third as many cherries as the total number of peaches and plums combined, and Olivia has three times as many cherries as Lucas.

How many fruits do they have in total?

- A) 315
B) 295
C) 305
D) 325

(Correct +3, Wrong 0, Blank 0)

18. What is the remainder when $13^{25} - 1$ is divided by 10?

- A) 4
B) 2
C) 3
D) 5

(Correct +3, Wrong 0, Blank 0)

19. P is an arithmetic series with the first and second terms 2 and 4 respectively. Q is a geometric series with the first term 2 and the second term 4. R is a series whose nth term is the sum of P's nth and Q's nth term.

The sum of the first 10 terms of the series R is

- A) 2123
B) 2109
C) 2156
D) 2151

(Correct +3, Wrong 0, Blank 0)

20. Let X, Y and Z represent three different digits from 1 to 9 that satisfy the system of equations:
 $X = Z - Y$

$$XX = 3 \times Z + Y$$

$$Z \times Y = XX + X$$

Find $\frac{X-Z}{Y}$. (In the equation above, XX represents a two-digit number both of whose digits are X)

- A) -1
B) -2
C) 2
D) 3

(Correct +3, Wrong 0, Blank 0)

21. The surface area of the largest cube that can be enclosed in a sphere with a volume of 36π cubic units is ____ square units. (Just write the number.)

(Correct +4, Wrong 0, Blank 0)

22. If $10^{75} - 7$ is written as an integer in standard form, **what is the sum of the integer's digits?** (Write only in numbers.)
(Standard form: decimal representation or base 10)

(Correct +4, Wrong 0, Blank 0)

23. A class has 10 students, 5 boys and 5 girls, 2 of the students are chosen at random.

If the probability that 2 girls are chosen in the

simplest form is $\frac{p}{q}$ what is $p + q$? (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

24. Given five numbers: a, b, c, d , and e . The average of a, b , and c is 12. The average of a, b, c, d , and e is 14.4.

If e is half of d , what is the value of e ? (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

25. What is the product of all positive one-digit integers? (Write only in numbers)

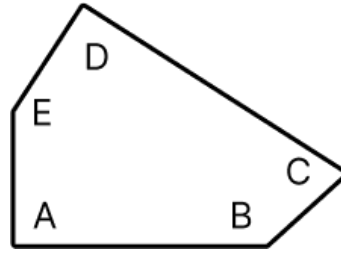
(Correct +4, Wrong 0, Blank 0)

26. The factorial of a number n , denoted $n!$, is the product of all positive integers from 1 to n
(for example, $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$)

Determine the number of trailing zeros in $73!$.
(Write only in numbers)

(Correct +4, Wrong 0, Blank 0)

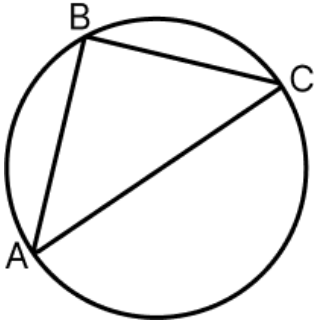
27. Look at the following pentagon.



Based on the image above
 $A + B + C + D + E = \underline{\hspace{2cm}}$ **degrees.** (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

28. In the image below $AB = 6$ unit, $BC = 8$ unit, $CA = 10$ unit, and the area of the circle is $q\pi$ square units.



Then $q = \underline{\hspace{2cm}}$. (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

29. The remainder when $1^1 + 2^2 + 3^3 + 4^4 + 5^5$ is divided by 4 is $\underline{\hspace{2cm}}$ (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

30. A natural number X is the smallest number that has a remainder of 4 when divided by 5, a remainder of 6 when divided by 7, and a remainder of 8 when divided by 9.

The number is $\underline{\hspace{2cm}}$. (Only write in numbers)

(Correct +4, Wrong 0, Blank 0)

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Answer Keys

No	Key	Code
1	C	KMF/4167/UGPJO
2	A	KMF/4101/O8B0S
3	B	KMF/4165/NLWRQ
4	B	KMF/4103/RZL94
5	D	KMF/3994/5MEGW
6	C	KMF/4033/XRPIS
7	D	KMF/4034/SR75J
8	C	KMF/4061/QP46A
9	A	KMF/4126/CFBXY
10	D	KMF/4007/J3DMC
11	B	KMF/4154/F3KNU
12	A	KMF/4098/ZJE6W
13	B	KMF/4036/ZT3DC
14	B	KMF/4029/NCBQD
15	B	KMF/4015/2E3ZD
16	A	KMF/4100/UQK4L
17	A	KMF/4067/OAK7J
18	B	KMF/3995/ORI8Y
19	C	KMF/4099/YOFZG
20	A	KMF/4052/OXCTC